



Marking unit

**Main optional features:**

- CNC controlled marking unit with 38 positions
- Drill spindle with automatic tool change system to carry out drilling, tapping, milling and other mechanical operations.
- Small part unloading system



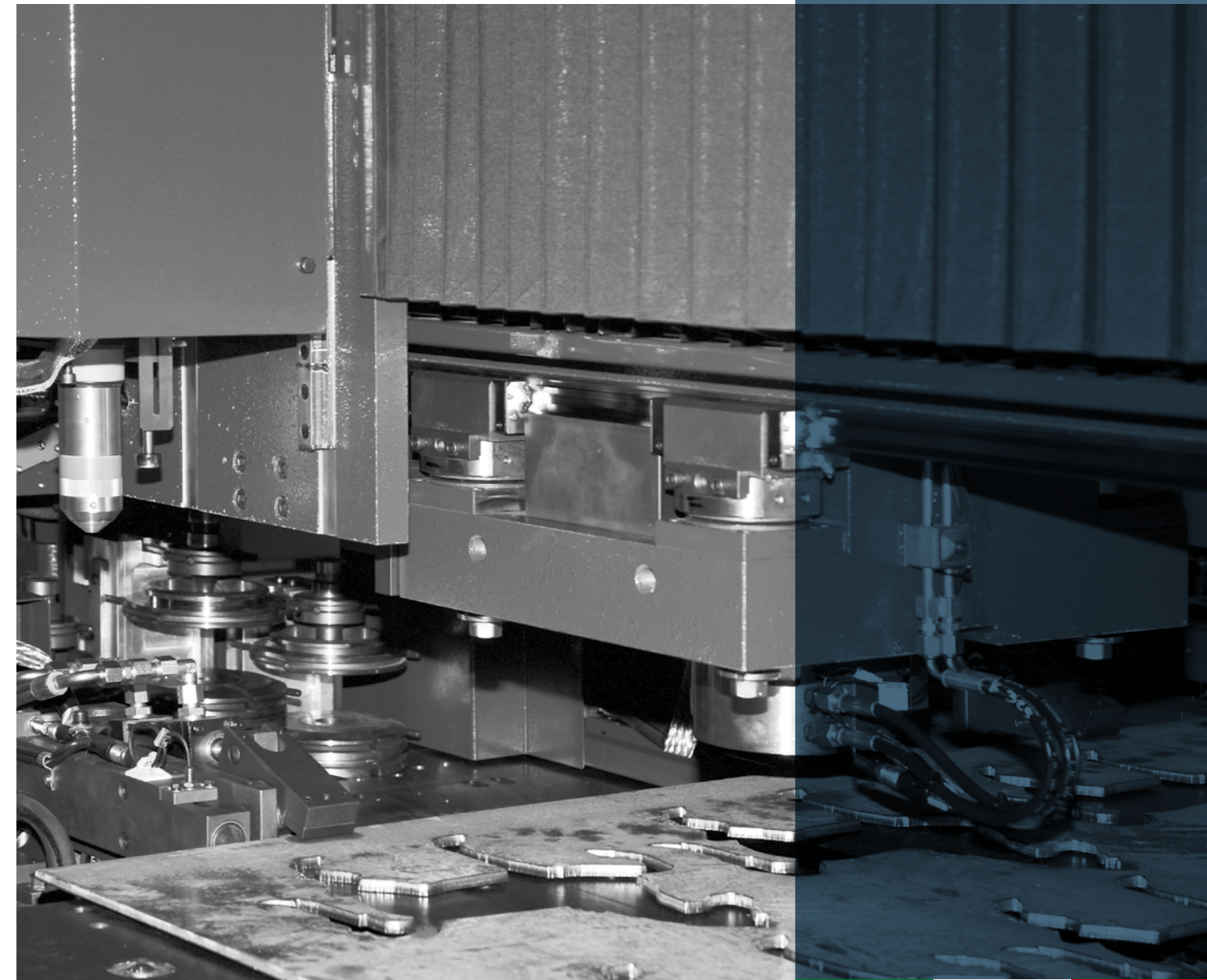
Automatic punch tool changer



Small part unloading system



Drilling unit



**TECH SPECS**

AUTOMATIC CNC PUNCHING, DRILLING AND THERMAL CUTTING SYSTEM FOR PLATES – TIPO C	TIPO C16
Plate size [max. inch]	63" x 122"
Punching nominal power [US tons]	56
Punching tools [no.]	12
Punching diameter [max. inch]	4"
Punching thickness [max. inch]	5/8"
Drilling heads [no.]	1
Drilling tools per head [no.]	6
Drilling diameter [max. inch]	3/4"
Spindle power [HP]	15
Spindle speed [max.RPM]	4,200
Plasma torches [max. no.]	1
Machine weight [lbs.]	22,050

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Please review FICEP's terms and conditions of sale and system specifications that are in our formal proposal. The manufacturer reserves the right to change specifications and features from those indicated in this brochure. Current specifications and features are part of the formal quotation. The capabilities stated are subject to the ASTM A6/A6M A standard as it relates to mill tolerances for straightness, thickness and surface conditions.



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## TIPO C

CNC fabrication cell for punching, scribing, marking, drilling, tapping, milling and thermal cutting operations for large plates



The TIPO C is a flexible CNC center flexible CNC centers capable of complying with the requirements of both traditional steel fabricators and all types of industries requiring accurate detailed components that require multiple diverse operations.

These models incorporate the operations of punching, scribing, marking, drilling, boring, milling, tapping and high definition plasma cutting of large plates.

The TIPO C is designed to accommodate the different requirements for automatically processing in one cycle large plates up to 63" and in different thicknesses ranging from 1/16" to 5/8", while ensuring high quality, precision, productivity and flexibility.

**FRAME AND HANDLING**

The frame is made of high resistance steel elements that are electric welded and stress relieved. Prismatic ways are utilized in conjunction with precision ground ball screws for precise axis positioning. Precision alignment of the different axis is achieved with a high tech laser system during assembly.

**HYDRAULIC PUNCHING**

The full tonnage of the hydraulic punching head is available throughout the entire stroke. The punching strength, which is constant throughout the punch stroke, is generated by a special high pressure hydraulic cylinder. A unique hydraulic cylinder design allows the use of progressive punches that considerably reduce the punching force and optimizes the production quality.

**PLATE HOLDER AND HYDRAULIC STRIPPER**

The hydraulic stripper system is engineered to reduce the punching noise to a minimum while maintaining minimum distortion of the plate being processed.

**PLASMA CUTTING**

This system is equipped with the new Hypertherm XPR170 plasma torch which enables the sophisticated FICEP system to control the torch height and cutting parameters to ensure the maximum performance of the cutting process.



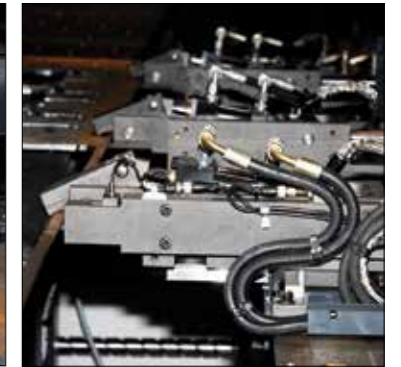
Automatic nesting through dedicated software



Pegaso is the new generation CNC for FICEP machines. PC, CNC and PLC are all integrated on a single board, to have the maximum reliability. Pegaso is based on field bus technology: CanBus and EtherCAT, with up to 32 axes controlled.



Punching unit



Material clamps



Plasma cutting unit



Countersinking



Tapping



Milling



Scribing

